## GAS BOILER SYSTEM COMMISSIONING CHECKLIST

This Commissioning Checklist is to be completed in full by the competent person who commissioned the boiler as a means of demonstrating compliance with the appropriate Building Regulations and then handed to the customer to keep for future reference.

Failure to install and commission according to the manufacturer's instructions and complete this Benchmark Commissioning Checklist will invalidate the warranty. This does not affect the customer's statutory rights.

Customer name: Telephone number:																				
Address:																				
Boiler make and model:																				
Boiler serial number:																				
Commissioned by (PRINT NAM	IE).								Gas	Safe re	eaiste	r numbe	>r.							
Commissioned by (PRINT NAME):  Gas Safe register number:  Telephone number:																				
Company address:																				
Company address:  Commissioning date:																				
To be completed by the customer on receipt of a Building Regulations Compliance Certificate*																				
Building Regulations Notification Number (if applicable):																				
CONTROLS (tick the appropriate boxes)																				
Room thermostat and programmer/timer Programmable room thermostat																				
Load/weather compensation Optimum start control																				
Time and temperature control to hot water Cylinder thermostat and programmer/timer Combination Boiler																				
Heating zone valves																				
Hot water zone valves																				
Thermostatic radiator valves										Fitt	ed							Not re	quired	
Automatic bypass to system										Fitt	ed							Not re	quired	
Boiler interlock																				
ALL SYSTEMS  The second of the decided of the second of th																				
The system has been flushed and cleaned in accordance with BS7593 and boiler manufacturer's instructions  Yes																				
What system cleaner was used?	<u> </u>																			
What inhibitor was used?																uantii	iy ———			litres
Has a primary water system filte	er bee	en install	ed?													Yes			No	
CENTRAL HEATING MODE me	easur	re and re	cord:																	
Gas rate								ı	m³/hr			О	R						1	ft³/hr
Burner operating pressure (if ap	plical	ble)						ı	mbar		OF	R Gas in	et pre	ssure					n	nbar
Central heating flow temperature	е																			°C
Central heating return temperature	ure																			°C
COMBINATION BOILERS ONL	Υ																			
Is the installation in a hard water		a (above	200pr	nm)?	·											Yes			No	
If yes, and if required by the mai						lucer h	neen fit	tted?								Yes			No	
What type of scale reducer has					50010 100											100				
DOMESTIC HOT WATER MOD			nd Por	cord:																
	L IVIE	asule al	iu ivec	coru.					m³/hr				R							ft3/br
Gas rate									m³/hr	<b>OD</b> 0	!1				4-					ft³/hr
Burner operating pressure (at m		um rate)	<u>'</u>						mbar	UK G	as me	et pressi	are at	maximum	rate					nbar
Cold water inlet temperature																_				°C
Hot water has been checked at	all ou	utlets												Yes		Iem	peratu	re		°C
Water flow rate																				/min
CONDENSING BOILERS ONLY	Y																			
The condensate drain has been	ı insta	alled in a	ccorda	ance	with the	manu	facture	er's instru	ctions	and/or	BS5	546/BS6	798						Yes	
ALL INSTALLATIONS																				
		At n	nax. ra	ite:			C	0		pp	m A	ND	CO/0	CO <sub>2</sub>			Ratio	)		
Record the following:		At n	nin. rat	te: (v	here po	ere possible) CO				ppm AND		CO/CO <sub>2</sub>			Ratio					
The heating and hot water syste	em co	mplies v	with the	e apr	oropriate	Buildi	ing Re	gulations					-						Yes	
The boiler and associated products have been installed and commissioned in accordance with the manufacturer's instructions  Yes																				
The operation of the boiler and system controls have been demonstrated to and understood by the customer  Yes																				
The manufacturer's literature, in													vith the	e custom	er				Yes	
				=				.,		1										
Commissioning Engineer's Sign	ialure	;																		
Customer's Signature (To confirm satisfactory demonstration and receipt of manufacturer's literature)																				
(10 confirm satisfactory demons	stratio	n and re	ceipt c	ot ma	anufactu	rer's lit	teratur	e)												

<sup>\*</sup> Allinstallations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer.



## **SERVICE RECORD**

It is recommended that your heating system is serviced regularly and that the appropriate Service Interval Record is completed.

# Service Provider

Before completing the appropriate Service Record below, please ensure you have carried out the service as described in the manufacturer's instructions. Always use the manufacturer's specified spare part when replacing controls.

Engineer name:  Company name: Telephone No:  Commontor.  Signature  SERVICE 03  Engineer name: Company name: Telephone No:  Commontor.  Service No: Commontor.  Signature  SERVICE 03  Engineer name: Company name: Telephone No: Commontor.  Service 03  Engineer name: Company name: Telephone No: Commontor.  SERVICE 04  Engineer name: Company name: Telephone No: Commontor.  Service 04  Engineer name: Company name: Telephone No: Commontor.  Service 04  Engineer name: Company name: Telephone No: Commontor.  Service 04  Engineer name: Company name: Telephone No: Commontor.  Service 04  Engineer name: Company name: Telephone No: Commontor.  Service 04  Engineer name: Company name: Telephone No: Commontor.  Service 05  Date: Service 05  Date: Service 06  Engineer name: Company name: Telephone No: Commontor.  Service 05  Date: Service 06  Engineer name: Company name: Telephone No: Commontor.  Service 05  Date: Service 05  Date: Service 06  Engineer name: Company name: Telephone No: Commontor.  Service 05  Date: Service 05  Date: Service 06  Engineer name: Company name: Telephone No: Commontor.  Service 05  Service 05  Date: Service 05  Date: Service 06  Engineer name: Company name: Telephone No: Commontor.  Service 05  Service 05  Date: Service 06  Engineer name: Company name: Telephone No: Commontor.  Service 07  Date: Service 07  Service 07  Service 07  Service 07  Service 08  Service	SER	VICE 01			Date:	SER	VICE 02			Date:				
Telephone No.	Engineer	name:				Enginee	r name:		1					
Gas safe register No: Report   Amaz. rates   CO   ppm   AMD   CO, %   Am min. rate: (ronce Possas)   CO   ppm   AMD   CO, %   Report   Amaz. rates   CO   ppm   AMD   CO, %	Company	name:				1   -								
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Record: Armin rate: (whee Presents) CO ppm AND CO, % Comments:  Signature  SERVICE 03  Engineer name:  Company name: Telephone No:  All max. rate: Company name: Telephone No: Comments:  Segnature  SERVICE 04  Engineer name: Company name: Telephone No: Comments:  Segnature  SERVICE 05  Engineer name: Company name: Telephone No: Comments:  SERVICE 05  Engineer name: Company name: Telephone No: Comments:  SERVICE 05  Engineer name: Company name: Telephone No: Comments:  SERVICE 05  Engineer name: Company name: Telephone No: Comments:  SERVICE 05  Engineer name: Company name: Telephone No: Comments:  SERVICE 05  Engineer name: Company name: Telephone No: Comments:  SERVICE 06  Engineer name: Company name: Telephone No: Comments:  SERVICE 07  Engineer name: Company name: Telephone No: Comments:  SERVICE 07  Engineer name: Company name: Telephone No: Comments:  SERVICE 07  Engineer name: Company name: Telephone No: Comments:  SERVICE 08  Engineer name: Company name: Telephone No: Comments:  SERVICE 07  Engineer name: Company name: Telephone No: Comments:  SERVICE 08  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: Comments:  SERVICE 09  Engineer name: Company name: Telephone No: C	Gas safe	register No:				Gas safe	Gas safe register No:							
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Signature   Sign	Record.	At min. rate: (Where Possible)	CO ppm	AND	CO <sub>2</sub> %	] Recolu.	At min. rate: (Where Possible)	CO ppm	AND	CO₂ %				
SERVICE 03	Commen	ts:				Commer	nts:							
SERVICE 03														
SERVICE 03						1								
Engineer name:	Signature					Signatur	e							
Engineer name:	SFR	VICE 03			Date:	SFR	VICE 04			Date:				
Company name: Telephone No: Record: At max. rate: Co ppm AND Co % Record: At max. rate: Signature  Service 05  Date: Engineer name: Company name: Telephone No: Gas safe register No: Record: At max. rate: Signature  Service 05  Date: Engineer name: Company name: Telephone No: Gas safe register No: Record: At max. rate: Signature  Service 05  Date: Engineer name: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Signature  Service 07  Date: Engineer name: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Record: At max. rate: Company name: Telephone No: Gas safe register No: Reco														
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SERVICE 05   Date:   Engineer name:   Company name:   Telephone No:   Gas safe register No:   Record:   At max. rate:   CO ppm   AND   CO2 %   At min. rate: (Where Possible)   CO ppm   AND   CO2 %	Commen	ts:				Commer	nts:							
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<sup>\*</sup> Allinstallations in England and Wales must be notified to Local Authority Building Control (LABC) either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer.



# FLOWCHART FOR CO LEVEL AND COMBUSTION RATIO CHECK ON COMMISSIONING A CONDENSING BOILER

# Important Preliminary Information on Checks

The air gas ratio valve is factory-set and must not be adjusted DURING COMMISSIONING.

If the boiler requires conversion to operate with a different gas family (e.g. conversion from natural gas to LPG) separate guidance is provided with the conversion kit supplied and this must be followed.

#### PRIOR TO CO LEVEL AND COMBUSTION RATIO CHECK

The installation instructions must have been followed, gas type verified and gas supply pressure / gas rate checked as required prior to commissioning.

As part of the installation process, ESPECIALLY WHERE A FLUE HAS BEEN FITTED BY PERSONS OTHER THAN THE BOILER INSTALLER, visually check the integrity of the whole flue system to confirm that all components are correctly assembled, fixed and supported. Check that maximum flue lengths have not been exceeded and all guidance has been followed (e.g. Gas Safe Register Technical Bulletin (TB) 008 where chimney/flues are in voids).

The ECGA should be of the correct type, as specified by BS 7967.

Prior to its use, the ECGA should have been maintained and calibrated as specified by the manufacturer. The installer must have the relevant competence for use of the analyser.

Check and zero the analyser IN FRESH AIR in accordance with the analyser manufacturer's instructions.

KEY:

**CO** = carbon monoxide

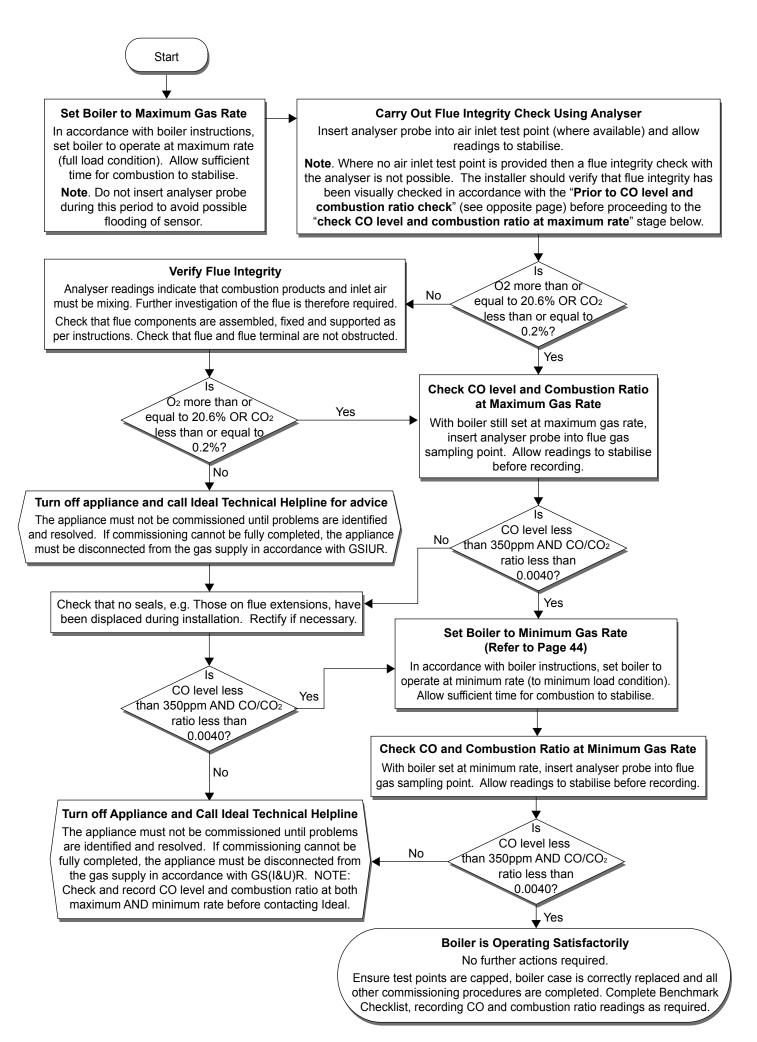
CO<sub>2</sub> = carbon dioxide

O2 = oxygen

**Combustion Ratio** = The CO reading measured in ppm divided by the CO<sub>2</sub> reading first converted to ppm ppm = parts per million

GS(I&U)R = Gas Safety (Installation and Use) Regulations

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Installation and Servicing 79



The code of practice for the installation, commissioning & servicing of central heating systems

# **Technical Training**



Manufactured under an ISO 9001 registered quality management system

FM 59915

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**Ideal Boilers Ltd.,** pursues a policy of continuing improvement in the design and performance of its products. The right is therefore reserved to vary specification without notice.



